



Attorney Docket No.: 56162.000530  
(GV 330)

## DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As the below named inventor, I hereby declare that:

My residence, post office address and citizenship is as stated below next to my name;

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

### MIMO DYNAMIC PSD ALLOCATION FOR DSL NETWORKS

the specification of which: ☐ is attached hereto.  
☒ was filed on: March 25, 2004  
as United States Application No.: 10/808,549  
or PCT International Application No.: \_\_\_\_\_  
and was amended on: \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56.

### Prior Foreign Application(s)

I hereby claim foreign priority benefits under 35 U.S.C. §§ 119(a)-(d) or (f), or § 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or § 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below by checking the box, any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed:

Application Number	Country	Date of Filing (day, month, year)	Date of Issue (day, month, year)	Priority Claimed	
				Yes <input type="checkbox"/>	No <input type="checkbox"/>
				Yes <input type="checkbox"/>	No <input type="checkbox"/>
				Yes <input type="checkbox"/>	No <input type="checkbox"/>

### Prior Provisional Application(s)

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Application Number	Date of Filing (day, month, year)
60/547,537	26 February 2004

### Prior United States Application(s)

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or § 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose material information as defined in 37 C.F.R. § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application Number	Date of Filing (day, month, year)	Status - Patented, Pending, Abandoned

And I hereby appoint, both jointly and severally, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith the Hunton & Williams LLP attorneys and agents associated with **CUSTOMER NUMBER 21967**.

All correspondence and telephone communications should be addressed to:

**CUSTOMER NUMBER  
21967**

corresponding to the law firm of Hunton & Williams LLP; Intellectual Property Department; 1900 K Street, N.W.; Suite 1200; Washington, DC 20006-1109; telephone number (202) 955-1500; facsimile number (202) 778-2201.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made

HUNTON & WILLIAMS LLP  
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are punishable by fine and imprisonment, or both, under 18 U.S.C. § 1001, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

**NAME OF SOLE OR FIRST INVENTOR:**

☐ A petition has been filed for this unsigned inventor

Signature

*Ehud Langberg*

Date

5/4/01

Given Name

(first and middle (if any))

Ehud

Family Name  
or Surname

LANGBERG

Citizenship:

USA

Residence:

44 Meadows Lane, Wayside, NJ 07712

Mailing Address:

44 Meadows Lane, Wayside, NJ 07712

**NAME OF SECOND INVENTOR:**

☐ A petition has been filed for this unsigned inventor

Signature

Date

Given Name

(first and middle (if any))

William

Family Name  
or Surname

SCHOLTZ

Citizenship:

USA

Residence:

734 Navesink River Road, Red Bank, NJ 07701

Mailing Address:

734 Navesink River Road, Red Bank, NJ 07701

**NAME OF THIRD INVENTOR:**

☐ A petition has been filed for this unsigned inventor

Signature

Date

Given Name

(first and middle (if any))

Lujing

Family Name  
or Surname

CAI

Citizenship:

USA

Residence:

517 Imbrie Place, Morganville, NJ 07751

Mailing Address:

517 Imbrie Place, Morganville, NJ 07751

**NAME OF FOURTH INVENTOR:**

☐ A petition has been filed for this unsigned inventor

Signature

Date

Given Name

(first and middle (if any))

Albert

Family Name  
or Surname

Rapaport

Citizenship:

Israel

Residence:

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Mailing Address:

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**NAME OF SOLE OR FIRST INVENTOR:**

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Signature \_\_\_\_\_ Date \_\_\_\_\_  
Given Name (first and middle (if any)) **Ehud** Family Name or Surname **LANGBERG**  
Citizenship: **USA**  
Residence: **44 Meadows Lane, Wayside, NJ 07712**  
Mailing Address: **44 Meadows Lane, Wayside, NJ 07712**

**NAME OF SECOND INVENTOR:**

☐ A petition has been filed for this unsigned inventor

Signature  Date 5/5/04  
Given Name (first and middle (if any)) **William** Family Name or Surname **SCHOLTZ**  
Citizenship: **USA**  
Residence: **734 Navesink River Road, Red Bank, NJ 07701**  
Mailing Address: **734 Navesink River Road, Red Bank, NJ 07701**

**NAME OF THIRD INVENTOR:**

☐ A petition has been filed for this unsigned inventor

Signature \_\_\_\_\_ Date \_\_\_\_\_  
Given Name (first and middle (if any)) **Lujing** Family Name or Surname **CAI**  
Citizenship: **USA**  
Residence: **517 Imbrie Place, Morganville, NJ 07751**  
Mailing Address: **517 Imbrie Place, Morganville, NJ 07751**

**NAME OF FOURTH INVENTOR:**

☐ A petition has been filed for this unsigned inventor

Signature \_\_\_\_\_ Date \_\_\_\_\_  
Given Name (first and middle (if any)) **Albert** Family Name or Surname **Rapaport**  
Citizenship: **Israel**  
Residence: **102 Radcliff Place, Morganville, NJ 07751**  
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Signature  Date **05/04/04**  
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Citizenship: **Israel**  
Residence: **102 Radcliff Place, Morganville, NJ 07751**  
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Citizenship: **USA**  
Residence: **517 Imbrie Place, Morganville, NJ 07751**  
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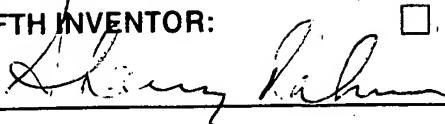
**NAME OF FOURTH INVENTOR:**

☐ A petition has been filed for this unsigned inventor

Signature  \_\_\_\_\_ Date **5/5/04**  
Given Name (first and middle (if any)) **Albert** Family Name or Surname **Rapaport**  
Citizenship: **Israel**  
Residence: **102 Radcliff Place, Morganville, NJ 07751**  
Mailing Address: **102 Radcliff Place, Morganville, NJ 07751**

**NAME OF FIFTH INVENTOR:**☐ A petition has been filed for this unsigned inventor

Signature



Date

5/5/04

Given Name  
(first and middle (if any))

Shareq

Family Name  
or Surname

RAHMAN

Citizenship: India

Residence: 308 Pleasant Valley Road, Morganville, NJ 07751

Mailing Address: 308 Pleasant Valley Road, Morganville, NJ 07751

**NAME OF SIXTH INVENTOR:**☐ A petition has been filed for this unsigned inventor

Signature

Date

Given Name  
(first and middle (if any))

Patrick

Family Name  
or Surname

DUVAUT

Citizenship: France

Residence: 48 Madison Court, Tinton Falls, NJ 07712

Mailing Address: 48 Madison Court, Tinton Falls, NJ 07712

**NAME OF FIFTH INVENTOR:**

☐ A petition has been filed for this unsigned inventor

Signature \_\_\_\_\_ Date \_\_\_\_\_

Given Name (first and middle (if any)) **Shareq** Family Name or Surname **RAHMAN**

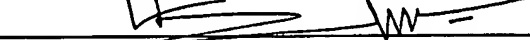
Citizenship: India

Residence: 308 Pleasant Valley Road, Morganville, NJ 07751

Mailing Address: 308 Pleasant Valley Road, Morganville, NJ 07751

**NAME OF SIXTH INVENTOR:**

☐ A petition has been filed for this unsigned inventor

Signature  Date 05/05/2004

Given Name (first and middle (if any)) **Patrick** Family Name or Surname **DUVAUT**

Citizenship: France

Residence: 48 Madison Court, Tinton Falls, NJ 07712

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